Frank de Ruiter

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- Delft area, The Netherlands
- Frank de Ruiter

Tech Skills

Javascript/Typescript
React
Node.js
GraphQL
OpenAI
Neo4J
PostgreSQL
Java
Camunda
Koa/Express
ExtJS
D3.js
ThreeJS
AWS

Soft Skills

Communication
Teamwork
Problem solving
Adaptability
Creativity
Innovation
Leadership

About me

I am a software developer with 20 years of experience. Javascript / Typescript is definitely my weapon of choice, but i also have experience working with Java and Python. Although i can pick up solo projects, I am a true team player.

Passionate about Javascript/Typescript web development using modern techniques like React, GraphQL, PostgreSQL, Node.js, Camunda, Github Actions. AI enthusiast; I've built many small prototypes and PoC's for projects using OpenAI.

As a Computer Science graduate of TU Delft, I have a strong foundation in computer science and a passion for learning new technologies. I am a quick learner and can pick up new technologies and languages quickly and I love working with graphs and algorithms.

What sets me apart from other developers:

- Communication: I am able to explain technical concepts to non-technical people.
- Seniority: I've been doing this for a while now. I can help less experienced developers get better.
- Leadership: I have the experience needed to make pragmatic decisions with a positive long term impact.

Education

Delft University of Technology

2009-2017

Bachelor of Science in Computer Science.

Minor: Interactive Environments

Additional subjects:

- Multi Agent Systems
- Big Data Processing
- Machine Learning

Experience

Founded valideparkeren.nl

2025 - present, Delft

Techstack: React, Node.js, Typescript, PostgreSQL, PostGIS, Docker, GraphQL, MUI, Mapbox, Dokku, New Relic

I founded valideparkeren.nl, a platform that helps people find accessible parking spaces in the Netherlands. I did everything on my own from the ground up: from the initial idea, to development, and even community building. This was a great learning experience, and I got to wear many hats that I usually don't get to: from product owner to community manager. But of course in the end this project is a labour of love, and I am proud of the product I have built, and even more proud of being able to help people find accessible parking spaces.

- Initial research of user needs
- Gathering an initial dataset to bootstrap the product
- Creating a frontend in React using MUI and Mapbox
- Creating a backend in Node.js using Express.
- Creating a PostGIS database to store the data in a spatial format that is optimized for the queries we need to run.
- Creating a GraphQL API to expose the data to the frontend.
- Working closely with users to gather feedback, and rapidly iterating on the product based on their feedback.
- Creating a community of users who are willing to help crowd source the data
- Zero-downtime deployments using Dokku
- Making sure everything keeps running smoothly with monitoring and backups

Freelance Full Stack Developer at IKEA - Modular Content Delivery project

2023 - present, Delft

Techstack: GraphQL, Neo4J, RDFox, Weaviate, Contentful, Node.js, Typescript, React, OpenAI, Docker, Azure, Astro, Vite

- Develop a federated GraphQL API to connect and disclose data from all over IKEA
- Create a taxonomy service for the IKEA Knowledge Graph
- Develop integrations between Contentful and other systems:
    - Weaviate
    - Neo4J
- Work together closely with the AI team at IKEA to develop PoC's for other teams using React, Node.js, Astro and Vite.
- Scrape and modularise content from internal websites
- Developed a tool to generate GraphQL schemas based on Shacl constraints to automate integration:
    - With Neo4J using their schema directives and query execution layer
    - With RDFox using internally developed directives and query engine

Freelance Full Stack Developer at IKEA - Co-worker Content Experience project

2022 - 2023, Delft

Techstack: GraphQL, Neo4J, Contentful, Node.js, Typescript, React, D3.js, Docker, Azure

- Help UX designers develop a novel interface for navigating graph data.
- Develop multiple iterations of a PoC for said navigation interface.
- Work together with the IKEA Knowledge Graph team to visualise and layout their data.

Lead developer at Governance.com

2021 - 2022, Delft

Techstack: GraphQL, Node.js, Typescript, React, PostgreSQL, Camunda, ExtJS, Material-UI, Docker, AWS

- Train Junior developers and onboard new employees.
- I was responsible for hiring technical positions.
- Manage a team of 4-8 developers in an Agile (scrum) environment.
- Client support in high security environments.
- Issue refinement and requirement clarification.
- Develop custom micro services using Node.js to handle automated tasks created by Camunda, a process engine.
- Develop a Typescript front-end in ExtJS and React, using Apollo, graphQL and Material-UI for a fintech platform.
- Develop a backend in Node.js using Typescript, PostgreSQL, koa and express, featuring a REST API and a GraphQL API using Apollo.
- Set up a CI/CD pipeline using GitHub Actions and AWS.

Senior Full Stack Developer at Governance.com

2017 - 2021, Delft

Techstack: GraphQL, Node.js, Typescript, React, PostgreSQL, Camunda, ExtJS, Material-UI, AWS, Python, TensorFlow, Docker,

- Train Junior developers and new employees in a team of 4-8 developers in an Agile (scrum) environment.
- Develop a backend in Node.js using Typescript, PostgreSQL, koa and express, featuring a REST API and a GraphQL API using Apollo.
- Develop and optimize a graph datastructure in PostgreSQL and develop high performance graph algorithms to query recursive data in the graph in real time.
- Develop custom micro services using Node.js to handle automated tasks created by Camunda, a process engine.
- Develop a Typescript front-end in ExtJS and React, using Apollo, GraphQL and Material-UI for a fintech platform.
- 6 Months full time machine learning research and development in Python using TensorFlow.

Full Stack developer at Governance.com

2014 - 2017, Delft

Techstack: ExtJS, Node.js, Typescript, React, PostgreSQL, D3.js, ThreeJS, Docker, AWS

Full stack javascript development of a fintech platform in Javascript using ExtJS in a team of 4-8 developers in an Agile (scrum) environment.

Before the company focused fully on their flagship product I also helped develop the prototype for the festival app Woov (https://www.woovapp.com), which is now the market leader in this space. I helped develop software to create custom maps for festivals. I also developed real-time communication mechanisms to implement chat and to poll the location of festival visitors so their friends could find them.

Besides day-to-day development work, my role in the team was to pick up anything that no one in the team had experience with. Examples include: learning D3.js for visualisations in a client project, learning ThreeJS to create a 3D model of the solar system for a talk at SenchaCon, creating custom maps using png files and Open Street Maps for Woov, and looking into possibilities for Machine Learning in the company.

Developed a data visualisation tool for Deloitte using D3.js and WebGL, capable of rendering and filtering 300.000 nodes and 2M edges and displaying shortest paths between nodes on the graph, all in real time.

Full stack webdeveloper at Intellifi

2013 - 2014, Veenendaal
Techstack: Node.js, MongoDB, Bootstrap, Docker

Developed a high-throughput indoor location tracking system backend with Node.js and MongoDB, featuring a Bootstrap front-end.

The system utilized RFID tags and readers to triangulate positions, with data processed on central servers.

Worked independently, choosing the tech stack while ensuring communication via a custom protocol. The server was optimized for performance, processing thousands of events per second on low-power hardware.

Android/web developer at Juno Facility Performance/Simpled/Fieldbox

2012 - 2013, The Hague
Techstack: ExtJS, PHP, MySQL, Android

Built an android application as well as full stack web application using ExtJS, PHP and MySQL from scratch for an order management system in a team of 2. There was no hierarchy in this team, all members were equal.

This android application allowed field workers for installation companies to work paperless and greatly simplified the administration for the companies.

Web developer at Nesh Media

2011 - 2012, Diemen
Techstack: PHP, MySQL, Joomla

Created Joomla extensions, also built websites for customers using Joomla.

I was the first and only employee of this company at the time. My main contribution to the company was a custom planning plugin for Joomla that allowed our customers (a medical specialist in this case) to define different types of appointments with locations and automatically accounted for travel times when the next user was making an appointment. This client performed medical checkups for professionals, some of which required helicopter flights to off shore oilrigs, so accounting for travel times allowed them to fit significantly more appointments in a day without manual planning.

Junior web developer at MoveNext

2004 - 2010, Leiden
Techstack: HTML/CSS, Linux

Built custom websites for customers with HTML/CSS on top of a CMS developed in-house.

The biggest project I worked on was creating 250 campaign websites for a political party.